2,3,5 TT, T0,60

3.1459

## Ramlal Paul Higher Sec. School

## Annual Examination - 2023-24

Tim	e:3hrs.	Sub	Class - VIII		M 80 M 20
1.	Choose the	e correct answe	era		1×5=5
I.	Cube of ar	odd numbers	is		
	a) prime	b) even	c) odd d) ma	y be even, may	be odd
II.	If the digit cube will b	e	of a number is 2, th	en the ending di	gits of its
	a) 2	6)4	e)6	d) 8	
Ш,	A bag has a red ball n		4 green balls, what is	the probability	of getting
	a) $\frac{1}{4}$	b) $\frac{1}{8}$	√e) 1/2	d) 0	
iV.	if 20 – 30 is	s the class inter	val of grouped data.	, then the lower	dass limi
	a) 50	b) 30	E) 20	d) 10	- 1
V. 1	Find the pa		etting a king from a	well shuffled d	eck of 52
	$\frac{1}{3}\frac{1}{52}$	b) $\frac{2}{52}$	c) $\frac{2}{13}$	$\frac{1}{13}$	
2.	Find the ra	tio of 50 paise	to Rs. 5. 16 8	E 1.1:10	1
3.	Convert 2	: 3 to percenta	ges. 2 x 105 20	10 - 66 6	1
4.	If a dice is 1	hrown in the air	, find the probability	of getting a prim	1
5.	When two	coins are tosse	d, what is the probab	oility of getting t	ail for both
	the coins.		666		
6.	What is the	evalue of $\pi$ ?	3/200		

Contd.

## 7. Fill in the blanks:

- (I) The co-ordinate of the origin is 0,0\_\_\_\_.
- (II) For any polyhedron, F + V E = 2. This relationship is called Even  $\lambda$  formula.
- (III) Pictorial representation of data using symbol is known as graph.
- (IV) Surface area of cylinder is 21 1/2 + 21-32
- (V) Area of circle = 11 72.
- Find the cube root of 110592 by prime factorization method
- Find the smallest number by which 128 must be divided to obtain perfect cube.
- Draw a parallelogram MORE

OR = 6cm, RE = 4.5cm, Et = 7.5cm

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- 11. A closed cylindrical tank of radius 7m and height 3m is made from a sheet of metal. How much sheet of metal is required?
- 12. Plot the points on a graph sheet. Verify if A(4, 0), B(4, 2), C(4, 6), D(4, 2, 5) lie on a line.
- 13. Draw the graph for the table of value with suitable scales on the axes.
  3
  Distance travelled by a car

Time (in hours)	6 a.m.	7 a.m.	8 a.m.	9 a.m
Distance (in km)	40	80	120	160

14. Find the height of a cuboid whose volume is 275cm<sup>3</sup> and base area is 25cm<sup>3</sup>.

Find the height of the cylinder whose volume is 1.54m and diameter of mase is 140cm.

The area of trapezium is 34cm<sup>2</sup> and the length of one of the parallel sides is 10cm and its height is 4cm. Find the length of the other parallel side.

18. Observe the following tables and find if x and y are directly proportional.

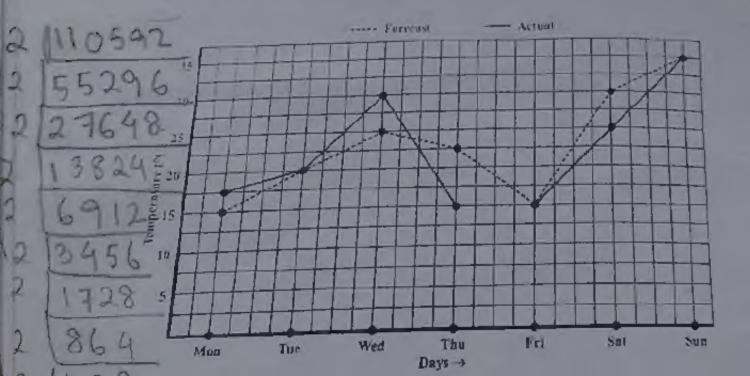
		1	1	- 0	. 7						2×,
(a)	X	8	8	1,3	3	(b)	X	10	6	14	22
	y	x 8 8 y 16 16	26	6	7.4	y	8	4	12	20	

Draw a pie chart showing the following information. The table shows the colour preferred by a group of people.

Colour	Blue	Green	Red	Yellow	Total
Number of people	18	9	6	3	36

- 20. A photograph of a bacteria enlarged 50,000 times attain a length of 5cm. What is the actual length of the bacteria. If the photograph is enlarged, 20,000 times only, what would be its enlarged length.
- 21. A farmer has enough food to feed 20 animals in his cattle for 6 days. How long would the food last if there were 10 more animals in his cattle?

22. The following graph shows the temperature forecast and the actual temperature for each day of a week.
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- (b) What was the maximum forecast temperature during the week?
- (c) What was the minimum actual temperature during the week?
- (d) On which day did the actual temperature differ the most from the forecast temperature.
- 23. An article was purchased for Rs. 1239 including GST of 18%. Find the price of the article before GST was added?
  5
- 24. Kamala borrowed Rs. 26,400 from a bank to buy a scooter at a rate of 15% p.a compounded yearly. What amount will she pay at the end of 2 years and 4 months to clear the loan.
  5
- 25. Construct the rectangle OKAY
  OK = 7cm, KA = 5cm

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26. The weekly wages (in Rs) of 30 worker in a factory are
830, 835, 890, 810, 835, 836, 869, 845, 898,
890, 820, 860, 832, 833, 855, 845, 804, 808,
812, 840, 885, 835, 835, 836, 878, 840, 868.

890, 806, 840.

Using tally marks, make a frequency table and draw a histogram with interval as 800 - 810, 810 - 820 and so on.

